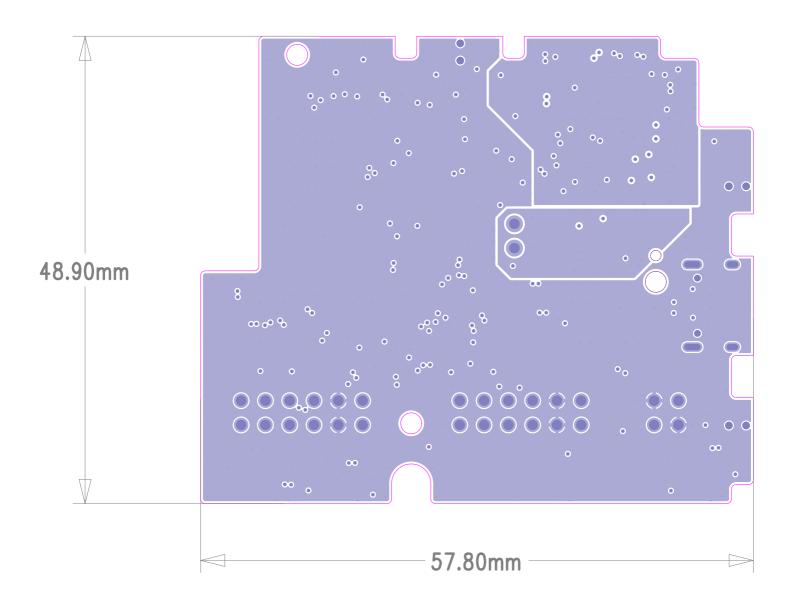


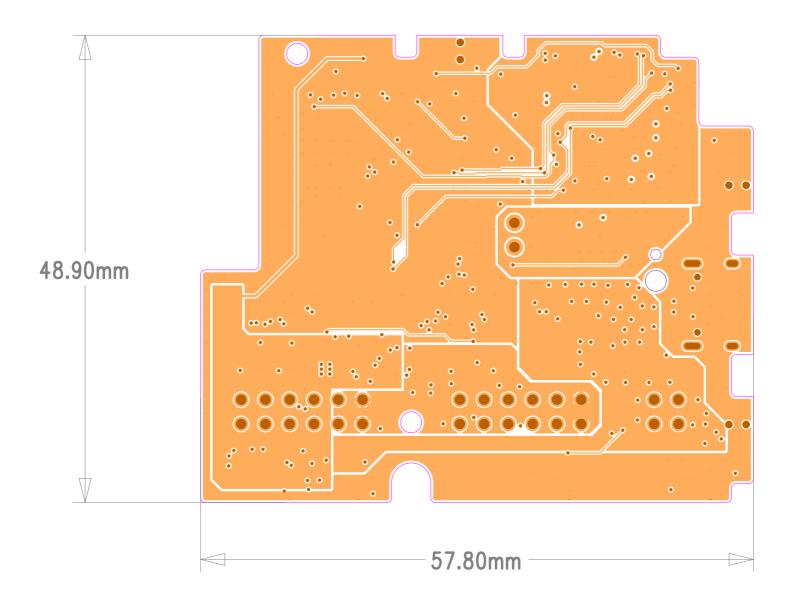
ESF	RES	SIF SYSTE	MS				
乐鑫	信息科	技(上海)月	投份	有限公	司		
Title	ESP	32-S3-BOX					
Task	3637	7				Rev	2.4
Date	Fri, S	Sep 17, 2021		Conf	ider	tial and F	roprietary
Thick	ness	Impedance	V	Vidth	Se	paration	Gap
1.0	nm 00 alon 7.3 mil 5 mil						

Stack up	Material	Base copper ( OZ )	Thickness (mil)	DK
CM			0.4	4
L1_Top	Finished Copper 1 OZ	0.33	0.8	
100/	7828 TG150 RC50%		8.22	4.6
L2_Gnd		1	1.2	
Conf	Core		Adjustable	4.6
L3_Power		1	1.2	
/he//	7628 TG150 RC50%		8.22	4.6
L4 Bottom	Finished Copper 1 OZ	0.33	0.8	
SM			0.4	4



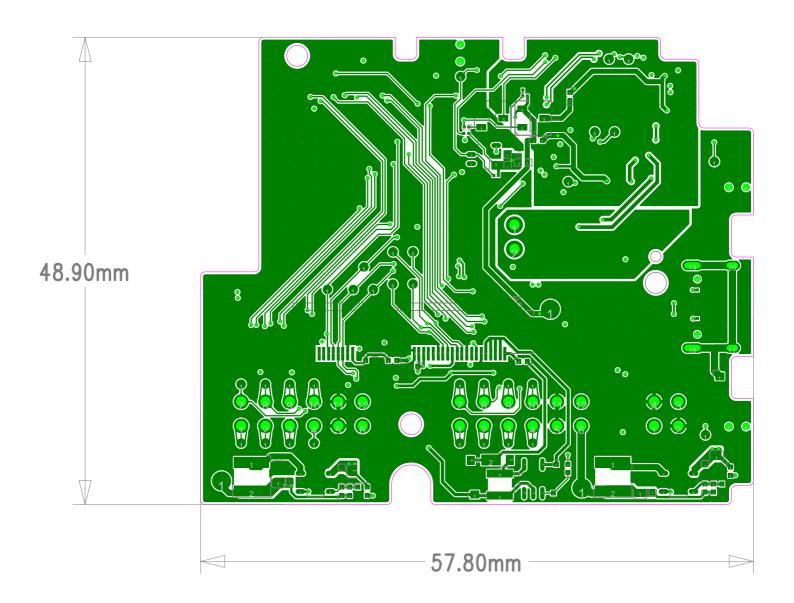
信息科	技 (上海) 月	分份	有限公	司		
ESP	32-S3-BOX					
3637	7				Rev	2.4
Fri, S	Sep 17, 2021		Conf	ider	itial and P	roprietary
				_		
	Impedance	- 7	/idth	ISε	paration	Gap
	信息科 ESP 3637	信息科技(上海)月 ESP32-S3-BOX 36377 Fri, Sep 17, 2021	ESP32-S3-BOX 36377 Fri, Sep 17, 2021	信息科技(上海)股份有限公 ESP32-S3-BOX 36377 Fri, Sep 17, 2021 Conf	信息科技(上海)股份有限公司 ESP32-S3-BOX 36377 Fri, Sep 17, 2021 Confider	信息科技(上海)股份有限公司 ESP32-S3-BOX 36377 Rev Fri, Sep 17, 2021 Confidential and P

Stack up	Material	Base copper ( OZ )	Thickness (mil)	DK
CM			0.4	4
L1_Top	Finished Copper 1 OZ	0.33	0.8	
/PP/	7628 TG150 RC50%		8.22	4.6
L2_Gnd		1	1.2	
Conf	Core		Adjustable	4.6
L3_Power		1	1.2	
/PP/	7628 TG150 RC50%		8.22	4.6
L4_Bottom	Finished Copper 1 OZ	0.33	0.8	
SM			0.4	4



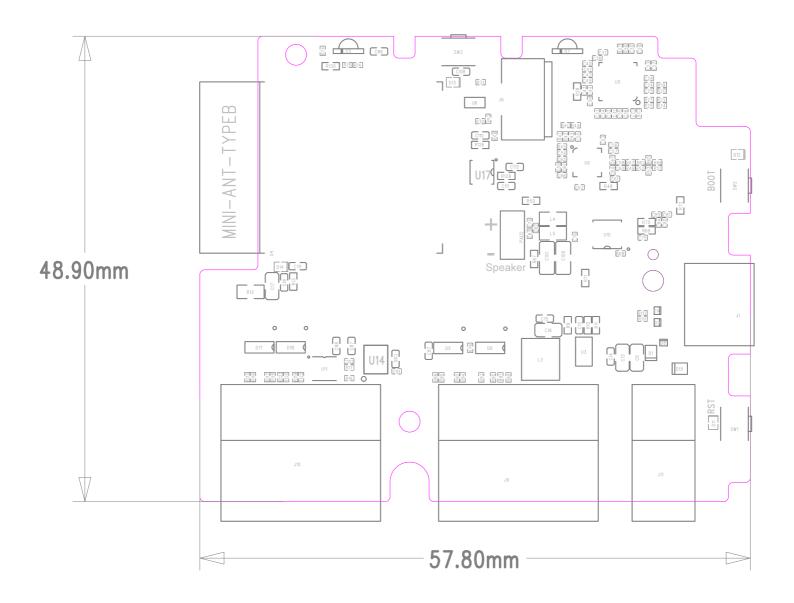
ESP	RES	SIF SYSTE	MS				
乐鑫	信息科	技(上海)	投份	有限公	司		
Title	ESP	32-S3-BOX					
Task	3637	7				Rev	2.4
Date	Fri, S	Sep 17, 2021		Conf	ider	ntial and F	roprietary
Thick	nace	Impedance	- 14	fi data	I.c.		Gap
1.0		00 ohm	ones main ocpanision				

Stack up	Material	Base copper ( OZ )	Thickness (mil)	DK
CM			0.4	4
L1_Top	Finished Copper 1 OZ	0.33	0.8	
/PP/	7628 TG150 RC50%		8.22	4.6
L2_Gnd		1	1.2	
Conf	Core		Adjustable	4.6
L3_Power		1	1.2	
/PP/	7628 TG150 RC50%		8.22	4.6
L4_Bottom	Finished Copper 1 OZ	0.33	0.8	
SM			0.4	-4



ESF	RES	SIF SYSTE	MS				
乐鑫	信息科	技(上海)月	分份	有限公	司		
Title	ESP	32-S3-BOX					
Task	3637	36377 Rev 2.4					
Date	Fri, S	Sep 17, 2021		Conf	ider	itial and I	roprietary
Thick		I			Lo	-	Gap
		Impedance		/idth	56	paration	_
1.0 i	mm 90 ohm 7.3 mil 6 mil 5 mil						

Stack up	Material	Base copper ( OZ )	Thickness (mil)	DK
CM			0.4	4
L1_Top	Finished Copper 1 OZ	0.33	0.8	
/PP/	7628 TG150 RC50%		8.22	4.6
L2_Gnd		1	1.2	
Corp	Core		Adjustable	4.6
L3_Power		1	1.2	
/PP/	7628 TG150 RC50%		8.22	4.6
L4_Bottom	Finished Copper 1 OZ	0.33	0.8	
SM			0.4	4



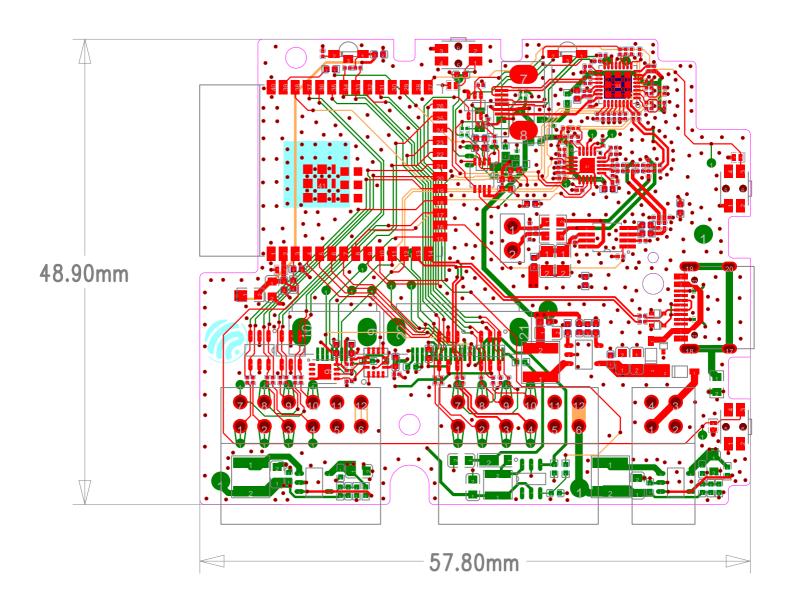
压会信息:						
ALBERTANA	¥技 (上海) J	股份者	与限公	司		
Title ES	32-S3-BOX					
Task 363					Rev	2.4
Date Fri,	Sep 17, 2021		Conf	ider	ntial and P	roprietary
Thickness	I I			-		
Inickness	Impedance		idth	+	paration	Gap

Stack up	Material	Base copper ( OZ )	Thickness (mil)	DK
CM			0.4	- 4
L1_Top	Finished Copper 1 OZ	0.33	0.8	
100/	7628 TG150 RC50%		8.22	4.6
L2_Gnd		1	1.2	
Cory	Core		Adjustable	4.6
L3_Power		- 1	1.2	
/he//	7628 TG150 RC50%		8.22	4.6
L4 Bottom	Finished Copper 1 OZ	0.33	0.8	
SM			0.4	4



ESF	RES	SIF SYSTE	MS				
乐鑫	信息科	技(上海)月	分份	有限公	司		
Title	ESP	32-S3-BOX					
Task	3637	7				Rev	2.4
Date	Fri, S	Sep 17, 2021		Conf	ider	ntial and I	roprietary
Thick	ness	Impedance	1.0	/idth	0.	eparation	Gap
	mm 90 ohm 7.3 mil 5 mil 5 mil						

Stack up	Material	Base copper ( OZ )	Thickness (mil)	DK
CM			0.4	4
L1_Top	Finished Copper 1 OZ	0.33	0.8	
/PP/	7628 TG150 RC50%		8.22	4.6
L2_Gnd		1	1.2	
Conf	Core		Adjustable	4.6
L3_Power		1	1.2	
/PP/	7628 TG150 RC50%		8.22	4.6
L4_Bottom	Finished Copper 1 OZ	0.33	0.8	
SM			0.4	4



					_			
ESF	RES	SIF SYSTE	:MS					
乐鑫	信息科	技(上海)	股份	有限公	司			
Title	ESP32-S3-BOX							
Task	36377					Rev	2.4	
Date	Fri, Sep 17, 2021 Confid				der	lential and Proprietary		
					_			
Thic	kness	Impedance	Width		Se	sparation	Gap	
1.0 mm		00 alam		3 mil		C 1	5 mil	

Stack up	Material	Base copper ( OZ )	Thickness (mil)	DK
CM			0.4	4
L1_Top		0.33	0.8	
100/	7628 TG150 RC50%		8.22	4.6
L2_Gnd		1	1.2	
Cory	Core		Adjustable	4.6
L3 Power		1	1.2	
/FP/	7628 TG150 RC50%		8.22	4.6
L4_Bottom	Finished Copper 1 OZ	0.33	0.8	
SM			0.4	4